

Abstract

Method And Device For Increasing The Safety Of Operation Of An Electrical Component

The diagnostics for a switched high-current or safety-relevant load (M) are extended to include active detection of a change in switching state of the load (M) independently of the instant of active actuation by the microcontroller (μC) and/or a superordinate control unit (SG). The diagnostic feedback is preferably applied to a "wake up" interrupt input of the microcontroller (μC). This allows active diagnostics in the event of a state change of the load (M), even if the controller (μC) is in power-down mode ($\mu\text{C}_{\text{stop}}$).